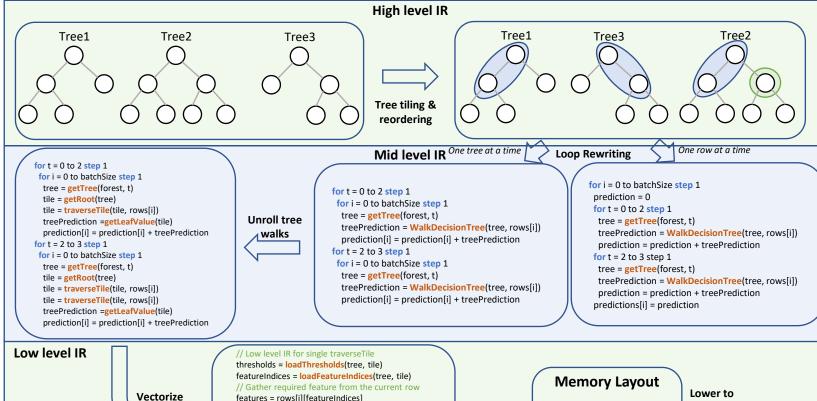
User code

inferenceRunner = treebeard.FromModelFile(modelFile, options)
results = inferenceRunner.PredictForest(batch)



// Low level IR for single traverseTile
thresholds = loadThresholds(tree, tile)
featureIndices = loadFeatureIndices(tree, tile)
// Gather required feature from the current row
features = rows[i][featureIndices]
// Vector comparison of features and thresholds
comparison = features < thresholds
// Pack bits in comparison vector into an integer
comparisonIndex = combineBitsIntoInt(comparison)
// Get child index of tile we need to move to
tileShape = loadTileShape(tree, tile)
childIndex = LUT[tileShapeID, comparisonIndex]
// Move to the correct child of the current node
tile = getChildTile(tree, tile, childIndex)

Array representation

LLVM IR

Sparse representation